

**Camelids like llamas, alpacas and camels are a very special species in Western-Europe. That is why they need specific housing, care and handling, and food.**

Llamas and alpacas are camelids. As they can be kept on a relatively small surface, you can now find them more often with non-professional owners who keep them as pets. Their condition and health largely depend on the quality of their forage. Too much of the same food, or very rich food is an even bigger problem for their health than a shortage of a certain nutrient. Food that is too luxurious or too consistent is even a bigger problem for their health than a shortage of a certain nutrient.

Camelids are ruminants and have a very efficient digestive system; they can get the maximum out of a frugal meal. But grass and hay alone is too uniform as they can choose from many herbs when they can freely range. But the average pasture mainly consists of rye-grass with at the most fifteen different herbs. Supplementary feed with a suitable concentrate is therefore a must throughout the year.

- Based on solid experience, Garvo composed a balanced pellet for camelids, the *Camalacubes* (8 mm). This pellet is so unique because of its protein and fibre content and the added vitamins. When the feed guidelines are applied, the ration provides for the necessary daily needs, and contributes to:
- Dry-muscled animals (as 'wild' animals should be);
- Dry and silky wool with a fine structure. This is characteristic in camelids with a perfect condition;
- Hard hooves;
- Perfect hormone levels, giving a good fertility, uncomplicated gestation, easy birth and trouble-free suckling period.

### Feeding guideline

See this guideline as a basic indication. Always watch the condition of the animals and, if necessary, adjust the portions.

- Give 0.75 to 1 kilo *camalacubes* per 100 kilo body weight in addition to unlimited quantities of rye or oat straw and limited quantities of good quality long and fibre-rich hay (about 1 kilo per 100 kilo of body weight);

Table of the quantity of *camalacubes* needed per day:

	Maintenance need in summer
<b>Alpaca</b> Adult weight 55 - 70 kilos	0.4 - 0.7 kilos
<b>Llama</b> Adult weight 100 - 120 kilos	0.75 - 1.2 kilos
<b>Camel</b> Adult weight 450 - 700 kilos	3 - 5 kilos

- At the end of their gestation period and during lactation they need 30 to 50% more feed to avoid a negative energy balance, with all its consequences;
- The ration always consists of *camalacubes*, straw and grass or hay.
- Provide straw in unlimited quantities, and also give the animals plenty of water;
- Other supplementary feed (of single products) is unnecessary, and even detrimental! Most kitchen refuse is unsuitable as supplementary feeding for camels, llamas and alpacas. Bread is not good either, as it is too rich in energy for these frugal animals;
- Feed camels, llamas and alpacas twice a day. Divide the portions of concentrates and hay equally in two feedings. Create several feeding places at some distance from one another to allow the animals to feed in peace and quiet.

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**Analyse/Analyse/Analysis:**

Ruw eiwit	Rohprotein	crude protein	11,5 %
Ruw vet	Rohfett	crude fat	3,2 %
Ruwe celstof	Rohfaser	crude fiber	10,7 %
Ruw as	Rohasche	ash	8,1 %
Zetmeel	Stärke	starch	31 %
Suiker	Zücker	sugar	5,8 %
Ca			0,9 %
P			0,47 %
Na			0,4 %
Mg			0,33 %
K			1,15 %

**Aminozen/Aminosäuren/Aminoacids:**

Lysine	4,6 g/kg
Methionine	1,9 g/kg
Meth. + Cyst.	3,9 g/kg
Tryptophaan	1,1 g/kg
Threonine	4,2 g/kg
Isoleucine	4,2 g/kg

**Toegevoegd/Zusatzstoffe/additional**

Vit. A	16500 i.e./kg
Vit. D3	3500 i.e./kg
Vit. E	103 mg/kg
Vit. C	15 mg/kg
Vit. K3	1 mg/kg
Vit. B1	2 mg/kg
Vit. B2	4 mg/kg
Niacine	20 mg/kg
d-Pantotheenzuur	10 mg/kg
Vit. B6	3 mg/kg
Vit. B12	30 mcg/kg
Biotine	150 mcg/kg
Choline Chl.	200 mg/kg
Foliumzuur	6 mg/kg
Fe	87 mg/kg
Mn	61 mg/kg
Cu	18 mg/kg
Zn	98 mg/kg
I	1,4 mg/kg
Se-org.	0,2 mg/kg

**Samenstelling/Zusammensetzung/composition:**

mais	Mais	Maize
luzerne	Luzernegrünmehl	Alfalfa
maismeel	Maismehl	corn
lijnzaadvezels	Leinsamenfaser	Linseedfiber
bietenpulp	Zuckerrübenschnitzel	sugar beet pulp
maïsglutenvoer	Maiskleberfutter	corn gluten feed
haver	Hafer	Oats
sojaschroot*	Soja-extr. Schrot*	dehulled soybeanmeal*
melasse	Molasses	molasses
lignobond	Lignobond	lignobond
schelpengrit	Muschelgritt	mussel shells

\* uit genetisch gemodificeerde sojabonen / hergesteld uit gen. Mod. Sojabohnen / produced from gen. Mod. Soybeans

**Voederadvies / Futterempfehlung / feeding advice:**

hoeveelheid te verdelen over min. 2 voerbeurten / Menge zu verteilen über 2 Fütterungen / divide over at least 2 feedingmoments

Alpaca's / Alpacas / alpacas	300 - 500 g/dag(Tag/day)
Lama's / Lamas / Llamas	500 - 800 g/dag(Tag/day)
Kamelen / Kamele / camels	2 - 3,5 kg/dag(Tag/day)

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